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- Yes
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The SCIENCE! of Icewings

dragondrawing333

Fantasy/Lilac- I've read *some* of the books, the first, second, and third. I assume you mean the jumping in and out of books, and if that is the case, then it's probably going to sound exactly like *The Science!!! of Into the Spiderverse*.

SCIENTIST!!! **(nickname)**

There are equal amounts of bacteria in and on your body, as there are cells in your body, meaning that *you* are not just your cells, *you* are an **amalgamate** of creatures that form together to create *you*.

The SCIENCE! of Icewings

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The SCIENCE! of Icewings

vanilladragon282

Good morning people! (Yes I know this is random!)

~+Rexy+~

Queen of all things Jurassic Park and anime related
Status: Semi-Active

#RememberHurricane
#LGBTQ+
LunaStar, *Gulfstream*, *Violet* ***~Forum Sis***

OC's:

Aquila/Zeus
Crocodile
Python
Cactus
Kuchikori
Borealis
Prismatic
Souleater
Myscelia Ethusa
Mendica
Hornet

The SCIENCE! of Icewings

hydrakitten48

Good morning!

Scientist~ the series starts out that way, but I was thinking about the last two books especially ~~I haven't read your last Science of article yet, but I plan on doing so eventually~~

0

Fanlasy/Lilac
She/Her
Proud Catholic
Bookish Writer-Editor
Fam: *Everyone*
BotW: 345247
EST. 10/08/14
~ 1632 stars ~
/352812
/354852

Don't think of this as a goodbye, think of it as a "see you later."

The SCIENCE! of Icewings

vanilladragon282

OK, SCIENCE!!! time. So the flamesilk *can't* hurt the flamesilk dragons, and *probably wouldn't* hurt Clay, because of his fire resistance. But would it hurt *Peril?* My theory is NO. Because, if you think about it, firescales and flamesilk are sort of similar.

2

~+Rexy+~

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The SCIENCE! of Icewings

dragondrawing333

Rexy- I'm totally okay with randomness. Bananas. SEE? I completely agree, if Peril was able to survive her normal heat of 1,221 - 1,517 degrees farenheit, like i suggested, then the comparably miniscule heat of a strand of flamesilk would probably go unnoticed. I'm rubbing off on you guys, **run** before you start spewing dad jokes!
Fantasy/Lilac- I don't know if you mean the last two books I mentioned, or the last two books published. I say it would end up sounding like *The Science!!! of Into the Spiderverse* because, to me at least, it seems that Bethany is crossing into different realities ~~Even though this would violate *the Many Worlds interpritation*, because the many worlds interpritation states that the different realites *can not*, under *any* circumstances, be detected or interacted with in *any way.*~~ Also, Good morning... Afternoon? Night? I don't know when your reading this.

☆ 0

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The SCIENCE! of Icewings

dragondrawing333

The Science!!! Of Dragon Taxonomy

I am about to answer a question I posed 75 days ago, 4 months ago, in my first ever SCIENCE!!! Post, *The Science!!! Of Icewings*, and it's *about time.*

"And while I do realize that dragons and humans are just a tad bit different, which is true, mammals are endothermic, meaning that we regulate our internal body heat, reptiles, which we assume these dragons are, scales, forked tongue, etc., are ectothermic, meaning they have to rely on outside conditions to keep their internal body heat stable, and them alive. But it seems Pyhrria's dragons are actually endothermic, my evidence for this is actually the entire first section of the first book, the Dragonets of Destiny are kept in a cave, a cold, damp cave, for their entire lives up to the start of the book, if they were

ectothermic they would be long, long dead. This raises some interesting questions as to what the residents of Phyrria would be scientifically categorized as, but that's a whole other can of worms, and not what I set out to answer."

What would the Dragons of the Wings of Fire series be scientifically classified as?

This was actually really difficult to research, the concepts aren't hard to grasp, and I didn't have to skirt around certain topics like I occasionally have to, no, this was difficult to research because I couldn't find any reliable Biological Keys. I eventually had to settle for the Biological Key I found in my *Exploring Biology With Biology 2nd edition Apologia* textbook cause I couldn't find any others, so if you do this yourself, you might get slightly different results.

Taxonomy is the science of identifying and classifying organisms, and the biologists often use something called a *Biological Key* to do just that. A biological key is, basically a questionnaire that will tell you what kind of creature you're looking at, for example, the first question in the key I used is: "Is the organism Microscopic or Macroscopic? If Microscopic then go to question 2, if Macroscopic go to question 3." Animals are sorted out into 7 categories, each being more specific than the last, Kingdom, Phylum, Class, Order, Family, Genus, and Species. I went down the list of 35 questions and came out with these results.

All of the different dragons spicies landed in these categories:
Kingdom Animalia
Phylum Chordata
Class Reptilia

I had to create everything after this, because dragons are mythical creatures and the biological key wasn't prepared for them.

Order Dragon

Mudwings, Seawings, Rainwings, Nightwings, Sandwings, Icewings, Skywings, and Leafwings fell under the family *Duo alata devastanteque* (Latin for Two winged).Hivewings, and Silkwings fell under the family *Quattuor alata devastanteque* (Latin for Four winged).

Mudwings, Seawings, Nightwings, Sandwings, Icewings, Skywings, and Hivewings fell into the genus *Rapinae* (Latin for predatory). The Rainwings, Silkwings, and Leafwings fell into the genus *Non Rapinae* (Not Predatory).

The species name is comprised of the genus and some defining characteristic of the animal, so the Mudwing species would be called *Rapinae Mudwing*, the Leafwings would be *Non Rapinae Leafwing,* ect. simple as that.

-Special thanks to Sandwings117 for suggesting this topic-

What I'm learning: Still trying to wrap my head around Quantum Tunnneling.

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The SCIENCE! of Icewings

vanilladragon282

OK, SCIENCE!!! questions/topics. How is it that the Asgardians are literal ALIENS, and yet they're almost (Keyword: ALMOST) identical to humans, minus the powers and whatnot. How is it that the Atlantians in *Aquaman* were able to develop the ability to breathe water seemingly in seconds in order to not immediately drown? If they can, why do they not have gills, and why can only the royalty breathe both, wouldn't they *all* be able to breathe air *and* water? Why are the Brine, Fishermen, and Trench kindgoms biologically more crab, fish, and... terrifying *thing* than the other kingdoms? And in the Lost kingdom, how did the dinosaurs get down there, how did the Karathen (The big Kraken/Crab thing) get down there, how did Atlan get down there, and was Atlan a human hybrid like Aquaman, which is why they both can talk to sea animals?

☆ 1

~+Rexy+~

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The SCIENCE! of Icewings

dragondrawing333

Rexy- Okay ,so... don't kill me, but i didn't go see Aquaman. Sorry. But i *can* answer some of those questions with a mixture of the comics, science, and **Lots** of coffee. If you'd like? I *might* be able to answer you question on Thor, but it might not end up being a full paper, and if it isn't, then i'll just slap it on here.

☆ 0

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The SCIENCE! of Icewings

dragonbee1509

how nightwings lived on a volcano island for 2000 years?

0

oy

The SCIENCE! of Icewings

dragonbee1509

how nightwings lived on a volcano island for 2000 years?

1

oy

The SCIENCE! of Icewings

dragonbee1509

and geography?and why sandwings have naturally ocouring heat?

1

oy

The SCIENCE! of Icewings

dragondrawing333

I don't understand what you mean by "living on a volacanic island for 2000 years". I covered the Sandwings natural heat in *The Science!!! of Sandwing Thermal Regulaton*.

0

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The SCIENCE! of Icewings

dragondrawing333

OK, Rexy!!! Answers to your increadible questions! When assesing all the problems presented to me by these questions, not least of all, the fact i haven't seen the movie Aquaman, i decided to split your questions up into different categories, and numbered them 1 -7. First off, Thor.

1. You are completely right to question the body shape and physical features of the Asgaurdians. We Humans are very well suited for life on Earth, we come prepackedged with increadible adaptations designed to help us survive in our enviroments, So for an Alien to develop to be, for all intents and purposes, human, is **beyond** astronomical (ba-doom-ching!)
2. I don't fully understand the question, i need some context, is this scene a flashback to the first Atlantean? Or a flashback to when Arthur first descovered his powers?
3. In the comics, Aquaman has gills.
4. MOVIE LOGIC!!!
5. Because they seem to live at different depths in the ocean, and would require specialized adaptations to survive.
6. Possibly the same wormhole that allowed Arthur and Mera to be transported there. Also, the Mosasaurs, wouldn't be classified as a dinosaur, dinosaurs are strictly land animals, Mosasaurs are classified as aquatic lizards, and petrosaurs are classified as flying reptiles.
7. Possibly the same wormhole that allowed Arthur and Mera to be transported the- Wait.
8. No. Atlan is Arthurs half-brother, and is full Atlantean, probably.

I hope that answers your questions, it's currently, at the time of writing this, 11:36 PM, and i have to get up early in the morning, so i bid you good night!

0

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The SCIENCE! of Icewings

vampiredragon5226

Skyrim's Shouts. Examples: Fire Breath, Whirlwind Sprint, Unrelenting Force, Slow Time, etc. I want to know how they work, or to put it simply: how does shouting like Eren Jager allow you to breathe fire? How does speaking some random words slow down time?

☆ 1

^¥Ash Spawn¥^
He/Him

Slitherin
Forum Family: Zane, Ruby

What some call sands of time, I call the ashes of age.
Afterall, that's what'll be left behind in the end, ashes.

The SCIENCE! of Icewings

dragondrawing333

Frozen Brine-
UUUU

are an **amalgamate** of creatures that form together to create *you*.

The SCIENCE! of Icewings

dragondrawing333

The Science!!! Of Icewing Blood

Am I the only one who didn't immediately realize how *adult* Wings of Fire is? Like I was rereading The Hidden Kingdom and Glory asks Jambu if their tribe *marries siblings*! I read this book when I was *9*!

Moving on with the theme of adult, we're going to talk about blood. Not gory! I swear! I've been asked to explain why Icewing blood is blue. First off, we need to figure out why our blood is red, to explain why their blood is blue.

We need to cover something, Human blood *isn't* blue, its red, all the time. This myth stems from the fact that your veins *appear* blue through your flesh, this is actually just an optical illusion cause by the skin absorbing differing levels of red and blue light. Our red blood is caused by *Hemoglobin* in our red blood cells, hemoglobin is a protein that carries Oxygen from the lungs to the tissues, and returns Carbon Dioxide from the tissues to the lungs, these red blood cells are red because the chemicle bonds created between the Iron and Oxygen reflect back red light.

So if the Icewings really had blue blood, then Darkstalker wouldn't even need that Icewing plague, they would be long dead since their blood wouldn't be able to transport oxygen, meaning they'd suffocate.

Or, that's what I *thought*, upon doing some research it turns out the Icewing blood, makes *so much sense*, I'm actually starting to wonder if Tui T. Sutherland has a degree in biology, or just knows how to use key search words. ~~Probably the latter.~~

Blue blooded creatures, in our real world, are called *Teuthidas*, instead of iron, they have copper in their hemoglobin, their blood contains a copper rich protein known as Hemocyanin which is dissolved in the plasma, instead of being carried by red blood cells, and it gives the blood a blue color.

Antarctic octopi (This *is* the plural form of octopus) are Teuthidas, the copper in their blue blood allows for more efficient oxygen transfer in more extreme temperatures. So it makes perfect sense for the Icewings to have blue blood, it means that they can withstand colder temperatures than any of the other dragon species, though this would mean that Icewings must have heavily different biologics compared to the other tribes of dragons.

-Special thanks to Nephrite for suggesting this topic-

Note- Starting right out the gate, we see Burn drop an dragon egg off a cliff, followed swiftly by Hvitur after torturing him with burning chains and shredding his wings, **and** stabbing her tail through his head (Little over*kill* there Burn), then Queen Scarlet bites the head off a human, then we get to see her snap the neck of the sandwing Dune, then Peril burns another Sandwing named Horizon, alive, I could go on and on, this series is **Dark**.

If you're getting a sense of deja-vu while reading this, then you probably have already read this, I'm reposting *The Science!!! of Icewing Blood* because i needed something to post, i'm fresh out of ideas, and it didn't seem to get many readers the first time around. Sorry. Hopefully, next time i'll have something NEW to give you.

☆ 2

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The SCIENCE! of Icewings

vanilladragon282

@SCIENCE! Thanks for explaining that, this makes much more sense. And *don't worry*, I won't spoil Aquaman (more than I already have)!

0

~+Rexy+~

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Mendica
Hornet

The SCIENCE! of Icewings

vampiredragon5226

Kirby's black hole of a stomach.

0

^¥Ash Spawn¥^
He/Him

Slitherin
Forum Family: Zane, Ruby

What some call sands of time, I call the ashes of age.
Afterall, that's what'll be left behind in the end, ashes.

The SCIENCE! of Icewings

dragondrawing333

Rexy- Don't worry about spoiling Aquaman, or any movie, for me, for most forms of entertainment, i don't care. Also, i spent a full two hour reading Aquaman comic summaries, and a summary of Aquaman sooo, not that big of a deal. The comics are *reallly* weird, Aquaman loses his (Right?) hand five times, and had it replaced with a fishing pole, a swiss army knife, a magic water hand, a knife, and a harpoon, Aurthur loses his kingship *at least* twenty times, and is also definitly stronger than superman, even above water. That had nothing to do with the other things, i just needed to get that off my chest.

☆ 1

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The SCIENCE! of Icewings

dragondrawing333

The Science!!! Of Leafwing Photosynthesis

I was searching *The Lost Continent* for new and interesting topics to put under my ~~guillotine~~, I mean, *microscope* of SCIENCE, when I stumbled across this line in the Leafwing abilities section: *could absorb energy from sunlight and were accomplished gardeners*. I grinned wickedly and said: “This will do.”

The Leafwings, from the most recent arc of the book series *Wings of Fire*, are a strange new addition to the cast of interesting creatures, for many different reasons, not the least of which is the line stated above that says that the Leafwings were able to Photosynthesize.

Photosynthesis is the process that plants, algae, and some bacteria use to turn sunlight into chemical energy, but when we talk about photosynthesis we’re talking about only one half of the photosynthetic processes, we’re talking about *oxygenic photosynthesis*. Oxygenic photosynthesis is the most common and is seen in plants, algae, and cyanobacteria, the other process is *Anoxygenic photosynthesis*, which occurs almost exclusively in bacterium.

In oxygenic photosynthesis, light energy steals electrons from water and gives them to carbon dioxide to produce carbohydrates. In this process, the carbon dioxide receives the electrons from the water, which becomes oxidized. The Oxygenic photosynthetic process can be summed up in this equation:

$6CO_2 + 12H_2O + \text{Light energy} \rightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$

Six molecules of carbon dioxide (CO_2) combined with twelve molecules of water (H_2O) by utilizing light energy, results in the creation of one glucose molecule ($C_6H_{12}O_6$) as well as six molecules of oxygen and six molecules of water.

In anoxygenic photosynthesis, light energy steals electrons from “donors” other than water, and as the names states, anoxygenic photosynthesis does not produce oxygen unlike oxygenic photosynthesis. The anoxygenic photosynthesis formula is:

$CO_2 + 2H_2A + \text{Light energy} \rightarrow CH_2O + 2A + H_2O$

A is a variable that represents the possible electron donor.

A carbon dioxide molecule (CO_2), a variable material ($2H_2A$) combine using light energy, and creates a molecule of Formaldehyde (CH_2O), a variable material (2A), and one water molecule (H_2O).

That is how photosynthesis occurs, and if you managed to read through that, *good job*! Also, get a life! (I’m kidding, I’m kidding... Sort of.)

It is obvious that the Leafwings are using oxygenic photosynthesis, they are based off plants, not bacteria, they are also said to have green and brown scales and presumably, green wings, meaning that they might contain *chlorophylls*.

Have you ever wondered why most leaves are green? Of course you have! Leaves are green because of the chlorophylls pigment that their cells contain, these pigments are green instead of say, black or turquoise, is because the color green is very good at capturing blue and red light, two very prominent types of light.

This is looking pretty good for the Leafwings (*Non Rapinae Leafwing*) right? Well, they’re about to *crash* and **burn**.

Plants are very good at what they do, and what they do, is photosynthesize and create more plants, *that’s it*! Plants spend every second of every day of every year creating energy for themselves, there is a very good reason other creatures don’t

photosynthesize, they would have to do nothing else, all their energy would have to be spent photosynthesizing. Photosynthesizing also doesn't create all the different proteins and sugars that everything that isn't a plant, needs.

Leafwings therefor would starve to death... Or not. Looking back at that sentence, it also mentions gardening, so the Leafwings *eat fruit and vegetables!* That changes *everything!*

The photosynthesizing, if it is more like a *supplement* to the Leafwings actual diet, plants, then it is more than feasible. It is likely.

1

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The SCIENCE! of Icewings

vanilladragon282

@SCIENCE! It's fine!

0

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The SCIENCE! of Icewings

dragondrawing333

It seems that no one is reading the longer SCIENCE!!! papers, is that because noone wants to read something that long? Should i be breaking them down into different parts? Or just making them shorter? I need answers people!

0

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The SCIENCE! of Icewings

hydrakitten48

I meant the last two books published in the series

0

~Fantasy/Lilac~
She/Her
Proud Catholic
Bookish Writer-Editor
Fam: *Everyone*
BotW: 345247
EST. 10/08/14
~ 1632 stars ~
/352812
/354852

Don't think of this as a goodbye, think of it as a "see you later."

The SCIENCE! of Icewings

tigerdragon6181

Sorry I haven't responded lately, but PLEASE KEEP MAKING THEM! They're not too long or anything, at least for me. Also, I saw what you said earlier, about the LeafWings being herbivores. But they're actually carnivores (or maybe omnivores) or at least Sundew is .because in the Hive Queen (THIS IS NOT A SPOILER) it says she ripped the heads off of two birds and ate them, so she has to be a carnivore or omnivore.

1

-=+Deisma+=-

She | her | SandWing

Forum sibs: Zane, Prism, Jacquelyn, Glamour & Nimarfira

"We are not doing get help."

**"We don't want to change,
We just want to change everything!"**

A Talon in Three Worlds: /353086

The SCIENCE! of Icewings

vanilladragon282

@SCIENCE! Wow, OK, these really *ARE* plant dragons!

0

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The SCIENCE! of Icewings

dragondrawing333

Jeff- Unless *everyone* just suddenly, for whatever reason, told me that they don't want me to write these, or i completely run out of ideas, then i won't stop writing these anytime soon. I think you misunderstood what i ment, i wasn't saying that "unless i get some comments i'm going to stop making these", no, i was trying to figure out if i needed to change anything to make reading these papers more enjoyable, though it is nice to see that you enjoy them. That is actually a really funny story, i didn't have *The Hive Queen* yet, it actually arived a day after posting that. Thankfully, this revalation dosen't change anything for the *Science!!! of Leafwing Photosynthesising*, it *does* mean that the Leafwings would be called *Rapinae Leafwing,* instead of *Non Rapinae Leafwing.*

Rexy- I hate to be the *but actually* guy (I'm lying) but actually, they would still be classified as animals, they just share some intresting caractericstics with plants.

When i recieved *The Hive Queen* (Finally) I read the entire book in three hours, i was *that* stoaked to get writing more SCIENCE!!! and after several months of having the word document just sitting in my SCIENCE!!! folder, make me feel guilty, i'm proud to anounce that *The Science!!! of Hivewing Mind Control* will be coming out soon!

☆ 2

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The SCIENCE! of Icewings

vampiredragon5226

People read them, but most are too busy to reply. And what about Kirby's black hole of a stomach? Or if you want something that doesn't rip apart planets, than, do something about how he's so rubbery

3

^¥Ash Spawn¥^
He/Him

Slitherin
Forum Family: Zane, Ruby

What some call sands of time, I call the ashes of age.
Afterall, that's what'll be left behind in the end, ashes.

The SCIENCE! of Icewings

dragondrawing333

The Science!!! Of Hivewing Mind control

(Spoilers for The Hive Queen ahead)

The main antagonist of the newest arc of the *Wings of Fire* series, is named Queen Wasp… That is absolutely *horrifying*, for reasons you will soon come to understand!

Queen Wasp is the queen (duh) of the Hivewing and Silkwing tribes and rules over them with a dictatorial iron grip, but the way she does this is… strange, she has the unique ability to take over the bodies of other Hivewings and force them to do anything, seemingly from any distance. But, how?

The book gives us a semi-explanation, but it doesn't really satisfy me. In chapters 19-22 of *The Hive Queen*, we find out how Queen Wasp mind controls her subjects, and why our narrator for that book, Cricket, is immune. Cricket- (Last warning, I swear! If you don't want *The Hive Queen* spoiled for you, then turn around now!) – Sneaks into Jewel Hives Hivewing nest, a place where they keep the Hivewing eggs, and witnesses Queen Wasp using her stingers to inject something that we later find out to be a rare plants juice, into the eggs. It seems that she needs to do this twice to solidify the mind control, because of this, Cricket is immune, because she was absent from the nest when Queen Wasp would have injected her the first time.

The name of the plant is never specified (Of *course*! That would be *too easy*!) and it is never shown nor said how the plant juices get into her stingers, but I think it's safe to assume that Queen Wasp is eating them.

When I read this, I was *sickeningly* reminded of a type of wasp who does something remarkably similar to this, they are called *Glyptapanteles*.

(This is about to get *really* disgusting, so if any of you are squeamish, like me, then skip to the next sentence in parentheses. For those of you who consider yourself hardcore, keep reading)

Glyptapanteles is a genus of parasitoid wasps that sting caterpillars with their stingers and inject their eggs into them, the eggs then hatch and *eat* their way out of the caterpillar and pupate, several larva forgo pupating to crawl into the caterpillars brain and force it to shield the pupating wasps until the caterpillar dies from starvation.

(For those of you who didn't read that paragraph, I envy you.)

You all done puking? I *did* warn you. I tried to make that as *not* graphic as possible, but there really is *no way* to make that *not* disgusting. At least *you* didn't have to look up pictures.

While there are some *interesting* correlations between the Glyptapanteles and Queen Wasp, and I do think that the Glyptapanteles played a major part in the inspiration for her powers, there are also a lot of things that don't add up. The Glyptapanteles don't need a certain type of plant to mind control those poor, poor caterpillars, while I couldn't find any studies on *how* the larva control the caterpillar (This seems to be a relatively new discovery) I can make the educated guess that it has something to do with secreted chemicals and small electrical charges.

I hate, and I do mean **hate**, to admit it, but for once, I think I need to throw SCIENCE!!! out the door and make an in-universe theory.

My prediction is that Queen Wasps powers *stem* (I love puns) from the fact that all the Hivewings are descended from Clearsight the Nightwing and some unnamed Silkwings. The mind control plant is *not* what gives Queen Wasp her powers, the plat is more of a *catalyst* for those powers that are *not* exclusive to Queen Wasp, but exclusive to the Hivewing species, and only affecting Hivewings. *Think* about it, if Queen Wasp could have taken complete, absolute control over all her subjects don't you think she would have? And it wouldn't be all that hard to get the Silkwing parents to group their eggs together like the Hivewings do, she *is* their ruler, they *have* to do what she says.

Okay, I've finally explained the Hivewing mind control, I've had this word document sitting on my desktop just *glareing* at me, making me feel guilty, it is *such* a relief to get this off my shoulders, *and* off my desktop.

☆ 0

SCIENTIST!!! **(nickname)**

There are equal amounts of bacteria in and on your body, as there are cells in your body, meaning that *you* are not just your cells, *you* are an **amalgamate** of creatures that form together to create *you*.

The SCIENCE! of Icewings

vanilladragon282

@SCIENCE! OH! *That's* why she's named Wasp!

☆ 0

~+Rexy+~

Queen of all things Jurassic Park and anime related
Status: Semi-Active

#RememberHurricane
#LGBTQ+
LunaStar, Gulfstream, Violet ***~Forum Sis***

OC's:

Aquila/Zeus
Crocodile
Python
Cactus

Kuchikori
Borealis
Prismatic
Souleater
Myscelia Ethusa
Mendica
Hornet

The SCIENCE! of Icewings

dragondrawing333

Possibly, though i have this sneaking suspicion that this was unintentional.

0

SCIENTIST!!! (nickname)

There are equal amounts of bacteria in and on your body, as there are cells in your body, meaning that *you* are not just your cells, *you* are an **amalgamate** of creatures that form together to create *you*.

The SCIENCE! of Icewings

dragondragon9188

Can you explain the science of SilkWing metamorphisis? I am dying to know! And can you also research my theory that HiveWings might be the result of clearsight just having dragonets with a yellow and red SilkWing creating a completely new tribe?

1

The SCIENCE! of Icewings

dragondrawing333

I can try. Did you post you theory somewhere? And if you did, can you tell me where to find it?